

**September 4, 2018 (Tuesday)**

Palau de Congressos de Tarragona				
8:30–9:30	Plenary Talk 2, Prof. Soumitro Banerjee (Indian Institute of Science Education & Research, India) Chair: Abdelali El Aroudi (Universitat Rovira i Virgili) Place: Hall, Eutyches Auditorium			
9:30–10:00	Coffee break			
	Room 1	Room 2	Room 3	Room 4
10:00–12:00	B1L-A Special Session: Laser Dynamics and Complex Photonics 4: Decision Making Chair: Damien Rontani Page 35	B1L-B Chaos and Bifurcation 1 Chair: Hideyuki Kato Page 37	B1L-C Control Systems 1 Chair: Yasuhiro Sugimoto Page 38	B1L-D Special Session: Nonlinear Phenomena in Non-Smooth Systems 1 Chairs: Viktor Avrutin and Zhanybai Zhusubaliyev Page 39
12:00–14:00	Lunch break			
14:00–15:20	B2L-A Special Session: Optimization Algorithms with Nonlinear Dynamics 1 Chair: Hidehiro Nakano Page 40	B2L-B Chaos and Bifurcation 2 and Nonlinear Phenomena Chair: Masaharu Adachi Page 41	B2L-C Control Systems 2 Chair: Tatsuya Kai Page 42	B2L-D Special Session: Nonlinear Phenomena in Non-Smooth Systems 2 Chairs: Viktor Avrutin and Gerard Olivar Page 43
15:20–15:35	Coffee break			
15:35–16:55	B3L-A Special Session: Optimization Algorithms with Nonlinear Dynamics 2 Chair: Kenya Jin'no Page 43	B3L-B Special Session: Cellular Dynamical Systems 1 Chair: Hiroyuki Torikai Page 44	B3L-C Complex Networks/Systems 1 Chair: Yutaka Shimada Page 45	B3L-D Special Session: Nonlinear Phenomena in Non-Smooth Systems 3 Chairs: Gerard Olivar and Zhanybai Zhusubaliyev Page 46
16:55–17:10	Coffee break			
17:10–18:30	B4L-A Special Session: Non-Algorithmic Computing by Complex Systems Chair: Ingo Fischer Page 47	B4L-B Special Session: Cellular Dynamical Systems 2 Chair: Hiroyuki Torikai Page 48	B4L-C Complex Networks/Systems 2 Chair: Naoki Wakamiya Page 49	B4L-D Special Session: Reinforcement Learning and Its Applications Chair: Takashi Matsubara Page 49